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TRILOBITA

COMPILED BY

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ARRANGED BY

C. J. STUBBLEFIELD, D.Sc., F.R.S.

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8.—Gill, E. D. Palaeozoology and Taxonomy of some Australian Homalonotid Trilobites. Proc. roy. Soc. Vict. N.S. **61** 1949 pp. 61–73 pls. viii, ix, text-fig. 1.

9.—Gill, E. D. Description and Biological Interpretation of some Victorian Trilobite hypostomes. Proc. roy. Soc. Vict. N.S. **61** 1949 pp. 123–131 pl. xiv.

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21.—Prantl, F. & **Přibyl,** A. Study of the Genus Barrandia McCoy (Trilobitae). Bull. intern. Acad. tchèque Sci., Prague **49** 5 for 1948, 1949 pp. 1–17 text-figs. 1–3 pls. i, ii. [English Summary of Czech text published in Rozpr. české Akad., Praha **58** 5 for 1948, 1949.] pp. 1–13 pls. i, ii.

22.—Prantl, F. & **Přibyl,** A. Some New or Imperfectly known Ordovician Trilobites from Bohemia. Bull. intern. Acad. tchèque Sci., Prague **49** 8 for 1948, 1949 pp. 1–23 8 text-figs. pls. i–iii. [English summary of Czech text published in Rozpr. české Akad., Praha.]

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24.—Raw, F. Facial Sutures in the (Hypoparian) Trilobites *Loganopeltoides* and *Loganopeltis* and the Validity of these Genera. J. Paleont., Menasha, Wis. **23** 5 1949 pp. 510–4 pl. lxxxiii.

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28.—Renaud, A. La faune couvinienne des schistes et grauwackes du Fret (Finistère). Bull. Soc. géol. min. Bretagne NS **1938** 1939 pp. 23–24.

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34.—Renaud, A. Le Dévonien du Synclinorium médian Brest-Laval 1er Fascicule Stratigraphie. Mém. Soc. géol. min. Bretagne **7** 1942, 184 pp.

35.—Renaud, A. Le Dévonien du Synclinorum médian Brest-Laval, 2me Fascicule Paléontologie. Mém. Soc. géol. min. Bretagne **7** 1942 439 pp. 14 pls. [Trilobita pp. 276–301 pls. xi, xii, xiv.]

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40.—Sinclair, G. W. The Ordovician Trilobite *Eobronteus*. J. Paleont., Menasha, Wis. **23** 1 1949 pp. 45–56 pls. xii–xiv.

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42.—Sinclair, G. W. Footnotes to *Eobronteus*. J. Paleont., Menasha, Wis. **23** 5 1949 p. 571.

43.—Störmer, L. [=**Størmer**]. Sous-Embranchement des Trilobitomorphes Störmer 1944 Class des Trilobites (Trilobita, Walch 1771) in P. Grassé, Traîté de Zoologie, Anatomie, Systématique, Biologie Tome VI 1949 Masson et Cie Paris pp. 160–197 24 text-figs.

44.—Svoboda, J. & **Prantl,** F. Stratigraficko-Tektonickà Studie o Devonské Oblasti Koněpruské. Sbor. geol. Úst. Českoslov. Repub., Praha **16** 1949 92 pp. [Czech with English and Russian summaries.]

45.—Teichert, C. Observations on Stratigraphy and Palaeontology of Devonian Western Portion of Kimberley Division Western Australia. Rep. Bureau Min. Resources Geol. Geophysics Commonwealth Austr. no. **2** 1949 55 pp. 6 pls.

46.—Thoral, M. Note sur quelques Fossiles acadiens du Nord-Ouest du Nord-Ouest de l'Espagne. Ann. Soc. géol. Nord **67** 1948 pp. 52–81 pl. v.

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50.—Weller, J. M. Paleontologic Classification. J. Paleont., Menasha, Wis. **23** 1949 pp. 680–9.

51.—Westergård, A. H. *Opsidiscus*, new name replacing *Aulacodiscus* Westergård 1946. Geol. Fören. Stockh. Förh. **71** 4 1949 p. 606.

52.—Westergård, A. H. On the geological age of *Irvingella suecica* Westergård. Geol. Fören. Stockh. Förh. **71** 4 1949 p. 606.

53.—Whittington, H. B. Redescription of the Trilobite *Eoharpes* Raymond 1905. Quart. J. Geol. Soc. London **104** for 1948 2 1949 p. 221–8 pls. xi, xii.

54.—Whittington, H. B. Dolichoharpes and the Origin of the Harpid Fringe. Amer. J. Sci., New Haven **247** 4 1949 pp. 276–285 pls. i, ii.

55.—**Wilson,** J. L. The Trilobite Fauna of the *Elvinia* Zone in the basal Wilberns Limestone of Texas. J. Paleont., Menasha, Wis. **23** 1 1949 pp. 25–44 pls. ix–xi.

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Glabella. — Suggested trisegmental origin of frontal lobe in Calymenidae, LAMONT **16.**

Facial sutures.—Existence of these structures in " *Loganopeltoides* " Rasetti disputed, RAW **24.**

Hypostome.—Interpreted as originally a dorsal axial structure which has become ventral through mouth migration ; biological significance discussed ; maculae rare in pelagic forms and are usually borne in hollows rather than on ventrally convex surfaces therefore visual function unlikely, purpose of muscle attachments considered more probable. Figures of *Phacops*, *Odontochile* and an Odontopleurid, GILL **9;** *Barrandia* (*Parabarrandia*) *crassa* Barrande and *B.* (subgen. n. ?) *prima* Klouček figured, PRANTL & PŘIBYL **21;** *Eohomalonotus* (*E.*) *bohemicus* and *E.* (*Calymenella*) *parvulus*) described and figured, PRANTL & PŘIBYL **23;** Term wings employed for horizontal extensions of margins, " alae " for dorsal extensions, GILL **9.**

Spines.—Genal spines developed phylogenetically late within *Barrandia* (*Parabarrandia*) contrary to Pompeckj's 1898 generalization for Bohemian Ordovician trilobites, PRANTL & PŘIBYL **21.**

Ornamentation of test.—The term Prosophon proposed to replace biologically erroneous term Ornament, GILL **6.**

Laboratory Technique. — Photographs of *Lonchodomas* sp. given side by side, one with trilobite coated with ammonium chloride sublimate, the other immersed in alcohol, STÖRMER **43.**

EVOLUTION AND CLASSIFICATION

Classification (principles of).— Species should not be established on basis of size where minor variations exist between small (immature) and large (mature) specimens from same bed or from different areas. Caution should be used so that lithological variations in matrix do not become interpreted as evidence of specific differences, likewise the changes brought about by (1) current or wave transport, (2) shrinking, curling or abrasion of skeleton due to air-exposure, (3) flattening by burial compaction, FREDERICKSON **5;** WELLER **50.**

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Phylogeny. — Claimed that Pompeckj's 1898 statement that well-developed genal spines found only in phylogenetically younger Bohemian Ordovician trilobites is inaccurate from evidence within *Barrandia* (*Parabarrandia*), PRANTL & PŘIBYL **21.**

Evolutionary Trends. — In Proetidae, in the subgenus *Phillibole* (*Liobole*) (1) "occipital solution" takes origin from the glabella laterally into the occipital ring (2) "*Peltura* tendency" or a forward placement of eyes accompanied by a post-ocular divergence of facial sutures, R. & E. RICHTER **36.**

ECOLOGY AND HABITS

Ecological Associations. — Middle Cambrian fauna of Languedoc (France) and of western Mediterranean generally is tied to the presence of calcareous mudstones and argillaceous sediment, THORAL **47;** Homalonotids usually found in inshore facies, rarely offshore ; inferred that they preferred sandy sediments and were not troubled by currents (found associated with cross bedded strata), GILL **8.**

Migration. — Immigrant nature noticed of Tremadoc fauna in Europe including first representation of Trinucleidae, Raphiophoridae, Harpidae and Harpidinae, RAW **24;** The early Upper Cambrian genus *Glyptagnostus* found sporadically in Scandinavia, Britain, N. America, Australia and Korea, KOBAYASHI **15.**

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Cambrian. — Britain (England), EDMONDS **4.**

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Cambrian (Middle).—Australia (Victoria), OPIK **18;** France (Languedoc), Morocco, THORAL **47;** Spain, THORAL **46;** Sweden (Jemtland), THORSLUND **49;** Sweden, WESTERGÅRD **51.**

Cambrian (Upper).—Korea (South) Australia (Queensland), Scandinavia, Britain, North America, KOBAYASHI **15;** Korea (South), KOBAYASHI **13, 14;** Sweden, WESTERGÅRD **52;** U.S.A. (Montana), LOCHMAN & DUNCAN **17;** U.S.A. (Oklahoma), FREDERICKSON **5;** U.S.A. (Texas), BRIDGE, BARNES & CLOUD **3;** J. L. WILSON **55.**

Cambrian (Upper or Lower ?).— Spain (Andalusia), R. & E. RICHTER **37.**

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Carboniferus (Lower). — Germany, Spain, R. & E. RICHTER **36.**

III.—SYSTEMATIC INDEX

N.B.—*The numbers in large Clarendon type refer to the list of Titles where the full reference will be found ; those in small Clarendon type to the volume number of the reference. Since all the species of the group are fossil, the † used elsewhere in the Zoological Record to indicate fossils is here omitted.*

Acaste rouaulti (de Tromelin & Lebesconte) p. 301, RENAUD **35.**

Acidaspis harnagensis **sp. n.** p. 301 pl. x figs. 21, 22, Ordovician Britain (England), BANCROFT & LAMONT Proc. roy. Soc. **136B** 883 1949.

Acidaspis sp. pygidium illustrated lying vertically across bedding p. 560 fig. 8 BOHLIN **2.**

Acrocephalina trisulcata **sp. n.** Cambrian (Upper) Korea (South) p. 230 text-fig. 5, KOBAYASHI Proc. Imp. Acad. Tokyo **20** no. 4 1944.

Acrocephalites lataegenae **sp. n.** Cambrian (Upper) U.S.A. (Texas) p. 31 pl. x fig. 14, J. L. WILSON J. Paleont. **23** 1 1949.

Agnostus (*Condylopyge*) aff. *rex* Barrande p. 74, *A.* (*Peronopsis*) sp., aff. *integer* Beyrich p. 75, recorded from Spain, THORAL **46.**

Apachia **gen. n.** for type *A. trigonis* **sp. n.** Cambrian (Upper) U.S.A. (Oklahoma) p. 346 pl. lxx figs. 14–17, FREDERICKSON J. Paleont. **23** 4 1949.

Arapahoia convexa Duncan 1944 synonym of *A. polita* Resser 1942, as also is *A. prolixa* Resser 1942 ; *A. neihartensis* Lochman 1944 a synonym of *A. elongata* Resser 1942 ; *A. walcottae* Resser a synonym of *A. snowiensis* Howell & Duncan 1939 p. 439, LOCHMAN & DUNCAN J. Paleont. **23** 4 1949.

Asaphus ? glabratus (Angelin) p. 362 pl. xxi figs. 7, 8, THORSLUND **48.**

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Aulacodiscus Westergård 1946 non Douvillé 1921 replaced by *Opsidiscus* **nom. n.** [quod vide,] WESTERGÅRD Geol. Fören. Stockholm Förh. **71** 4 1949.

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hypostome pl. i fig. 4, *B.* (subgen. n. ?) *prima* Holub 1912 *partim* p. 13 text-fig. 3, hypostome pl. i fig. 5, pygidium figured by Holub referred to *Symphysurus pater* (Holub) p. 13, PRANTL & PŘIBYL Bull. intern. Acad. tchèque Sci. **49** 5 for 1948, 1949.

Barrandia prima Holub 1912 *partim* referred to *Symphysurus* (*Symphysurus*) p. 4 PRANTL & PŘIBYL **20.**

Bellefontia ? recorded from Utah p. 481, Ross **38.**

Cf. *Beltella* recorded from Utah p. 481, Ross **38.**

Bemaspis **gen. n.** for type *B. gouldi* **sp. n.** Cambrian (Upper) U.S.A (Oklahoma) p. 357 pl. lxxi figs. 11–14 FREDERICKSON J. Paleont. **23** 1949.

Berkeia glabellamersa **sp. n.** Cambrian (Upper) U.S.A. (Texas) p. 36 pl. xi figs. 13–15, Resser's species *B. comes*, *B. retusa*, *B. wichitaensis*, *B. angustata*, *B. jucunda* and *B. missouriensis* referred to *Kindbladia* p. 41, J. L. WILSON J. Paleont. **23** 1 1949.

Berkeia lata **sp. n.** p. 347 pl. lxviii figs. 17–19, *B.* sp. p. 347 pl. lxviii figs. 20, 21 Cambrian (Upper) U.S.A. (Oklahoma), FREDERICKSON J. Paleont. **23** 4 1949.

Bernia **gen. n.** [resembles *Conaspis*] for type *B. obtusa* **sp. p.** Cambrian (Upper) U.S.A. (Oklahoma) p. 357 pl. lxx figs. 1–6, FREDERICKSON J. Paleont. **23** 4 1949.

Bernicella **gen. n.** [resembles *Cheilocephalus* Berkey] for type *B. minuta* **sp. n.** Cambrian (Upper) U.S.A. (Oklahoma) p. 347 pl. lxviii figs. 14–16, FREDERICKSON J. Paleont. **23** 4 1949.

Bolaspidella wellsvillensis revised generic reference for *Howellaspis w.* Lochman and Denson 1944 and *B. snowyensis* for *H. s.* Duncan 1944 p. 439, LOCHMAN & DUNCAN J. Paleont. **23** 4 1949.

Broeggerolithus constrictus **sp. n.** p. 298 pl. xi fig. 38, *B. broeggeri* (Bancroft) p. 298 pl. ix figs. 4, 5, *B. soudleyensis* (Bancroft) p. 298 pl. ix fig. 6, *B. transiens* (Bancroft) p. 298 pl. ix fig. 8 Ordovician Britain (England), BANCROFT & LAMONT Proc. roy. Soc. **136B** 883 1949.

Brongniartella Reed 1918 discussed p. 15 *B. inexpectata* revised generic reference for *Homalonotus inexpectatus* Barrande 1872 lectotype chosen p. 16 pl. ii figs. 3, 4, PRANTL & PŘIBYL **23.**

Brongniartella horderleyensis **sp. n.** ? [sic] Ordovician (Middle) Britain (England) p. 309, BANCROFT & LAMONT Proc. roy. Soc. **136B** 883 1949.

Burnetia urania (Walcott) p. 348 pl. lxx figs. 12, 13, *B. exilis* Resser to the synonomy of which is also referred *B. ectypa* Resser p. 348 pl. lxx figs. 9–11, FREDERICKSON **5.**

Bronteus insularis Eichwald referred to *Eobronteus* p. 55 *B. richteri* Sun referred to *E.* ? p. 55, SINCLAIR **40.**

Brontes hibernicus Portlock referred *Eobronteus* p. 53, SINCLAIR **40.**

Burnetia urania (Walcott) p. 32 pl. ix figs. 3, 9, 10 Resser's species *B. intermedia*, *B. extensa*, *B. curta*, *B. lingula* referred to *Dokimocephalus* p. 36, *B. edwardsi* Resser referred to *Wilbernia* p. 36, J. L. WILSON **55.**

Calymene hadyardensis p. 316, pl. xviii figs. 8–12, *C. carlops* p. 319 pl. xviii figs. 13–19 **spp. n.** Silurian (Lower) Britain (Scotland), LAMONT Geol. Mag. **86** 1949.

Calymene parvula Barrande 1846 referred to *Eohomalonotus* (*Calymenella*) [quod vide] p. 14, PRANTL & PŘIBYL **23.**

Calymenella Bergeron 1890 assigned as a subgenus to *Eohomalonotus* Reed 1918 [quod vide] p. 4, PRANTL & PŘIBYL **23.**

Calymenida (Gonatoparia Gürich) superfamily comprising Calymenidae & Homalonotidae p. 5, PRANTL & PŘIBYL **23.**

Camaraspoides **gen. n.** [related to *Camaraspis*] for type *Modocia berkeyi* Resser p. 349 pl lxviii figs. 1–9, Cambrian (Upper) U.S.A. (Minnesota & Oklahoma), FREDERICKSON J. Paleont. **23** 4 1949.

Camaraspis convexa (Whitfield) p. 33 pl. x figs. 6, 8, 11, J. L. Wilson **55.**

Caphyra cf. *radians* Barrande p. 407, Henningsmoen **11.**

Centropleura neglecta **sp. n.** Cambrian (Middle) Australia (Victoria) p. 55 pl. i figs. 1, 2 text-figs. 1, 2 *C. pugnax* Illing not regarded as *Clarella* as stated by Howell p. 57, Opik Mining & Geol. J. Dept. Mines Victoria, Melbourne **3** 5 1949.

Chaunoproetus cf. *palensis* Richter recorded from early Upper Devonian of Western Australia p. 18, Teichert **45.**

Cheilocephalus sp. undet. from Upper Cambrian of Texas p. 34, pl. ix figs. 23, 24, J. L. Wilson J. Paleont. **23** 1 1949.

Cheirurus hofmanni Perner 1900 designated type of *Pseudopetigurus* **gen. n.** [quod vide], Prantl & Přibyl **22.**

Clarella pugnax (Illing) returned to *Centropleura* p. 57, Opik **18.**

Clelandia sp. n. recorded from Utah p. 481, Ross **38.**

Conocephalites ribeiro de Verneuil & Barrande referred to *Solenopleuropsis* and specific name modified to *ribeiroi* p. 43, Thoral **47.**

Conocoryphe rouayrouxi Munier-Chalmas & Bergeron referred to *Solenopleuropsis* p. 28, Thoral **47.**

Coosia grandis Lochman 1944 considered to be synonym of *C. dakotensis* Resser 1942 p. 439, Lochman & Resser J. Paleont. **23** 4 1949.

Couloumania heberti (Munier-Chalmas & Bergeron) pl. iv fig. 1 c, Thoral **47.**

Couloumania aff. *heberti* Munier-Chalmas & Bergeron recorded from Spain p. 75, Thoral **46.**

Cryhaeus laciniatus Roemer referred to *Asteropyge* p. 297 *C. kerfornei* Pichard to *A.* p. 297, *C. munieri* Oehlert to *A.* p. 299, *C. michelini* Rouault to *A.* p. 299 *C. pectinatus* Roemer to *A.* p. 300, *C. jonesi* Oehlert to *A.* p. 300, Renaud **35.**

Ctenocephalus bergeroni Thoral pl. iv fig. 1b, Thoral **47.**

Cyrtosymbole recorded from early Upper Devonian of Western Australia pp. 18, 19, Teichert **45.**

Dalmanitidae genera based on skeletal features which are not necessarily biologically important, namely pygidial and hypostomal features; suggested that evolution of *Dalmanites* into *Odontochile* took place in different parts of world independently p. 16, Gill **7.**

Dalmanites wandongensis **sp. n.** Silurian ? Australia p. 18 pl. i figs. 1–4, *Phacops* (*Odontochile*) *caudatus* McCoy 1876 referred to this species p. 18, Gill J. Roy. Soc. N.S.W. **82** 1 for 1948, 1949.

Deckera **gen. n.** [resembles *Acrocephalites*] for type *D. aldenensis* **sp. n.** Cambrian (Upper) U.S.A. (Oklahoma) p. 350 pl. lxviii figs. 22–24, *D. vigilans* revised generic assignation for *Acrocephalites vigilans* Walcott and Resser, a species from Novaya Zemlya p. 351, Frederickson J. Paleont. **23** 4 1949.

Dellea **gen. n.** [resembles *Modocia* and *Dunderbergia*] for type *D. wilbernsensis* **sp. n.** p. 35 pl. xi figs. 1, 2, 4–7, 12, *D.* sp. undet. p. 35 pl. ix figs. 3, 10, 11 Cambrian (Upper) U.S.A. (Texas), J. L. Wilson J. Paleont. **23** 1 1949.

Dellea juvenalis p. 351 pl. lxix figs. 8–15, *D. butlerensis* p. 351 pl. lxix figs. 16–18 **spp. n.** Cambrian (Upper) U.S.A. (Oklahoma), Frederickson J. Paleont. **23** 4 1949.

Diacalymene praecox **sp. n.** Ordovician (Middle) Britain (England) p. 308 pl. xi figs. 28, 28a said to anticipate the Upper Ordovician *D. marginata* Shirley p. 309, Bancroft & Lamont Proc. roy. Soc. **136B** 883 1949.

Dionide (*Reedaspis*) **subgen. n.** replacement name for *D.* (*Raymondella*) Reed 1935 *non* Bancroft 1933 p. 2, Prantl & Přibyl Bull. intern. Acad. tchèque Sci. **49** 8 for 1948 1949.

Dionide euglypta (Angelin) p. 407, Henningsmoen **11.**

Dionididae Raymond 1920 diagnosis emended considered to include *Dionide* Barrande, *D.* (*Reedaspis*)

subgen. n. (replacement name for *D.* (*Raymondella*) Reed, and *Dionidella* **gen. n.** p. 2, PRANTL & PŘIBYL **22.**

Dionidella **gen. n.** [Dionididae] for type *D. incisa* **sp. n.** Ordovician (Lower) Czechoslovakia p. 2, text-fig. 4 pl. i fig. 1, PRANTL & PŘIBYL Bull. intern. Acad. tchèque Sci. **49** 8 for 1948 1949.

Dindymene bohemica Barrande 1872 designated type of *Plasiaspis* **gen. n.** p. 18, PRANTL & PŘIBYL Bull. intern. Acad. tchèque Sci. **49** 8 for 1948 1949.

Dokimocephalus intermedius (Resser) p. 37 pl. ix figs. 1, 2, 4, 5; *Burnetia lingula* and *B. extensa* Resser referred to synonymy of *D. intermedius* p. 37 *D. curta* revised generic assignation for *Burnetia c.* Resser p. 37, J. L. WILSON **55.**

Dokimocephalinae Kobayashi excluded from Solenopleuridae p. 21, THORAL **47.**

Dolichoharpes **gen. n.** (Harpidae) for type *Eoharpes uniserialis* Raymond 1925 p. 277 pl. i figs 1, 3–5, lectotype of *E. u.* selected, redescribed and refigured p. 278, *D. reticulata* **sp. n.** p. 280 pl. i figs. 2, 6, 7 pl. ii figs. 1–6 Ordovician (Middle) U.S.A. Harpid fringe interpreted as influenced by the coming together of reticulated dorsal surface and reticulated doublure p. 284, WHITTINGTON Amer. J. Sci. **247** 1949.

Elvinia roemeri (Shumard) to the synonymy of which species are referred Resser's *E. tetonensis, E. texana, E. shumardi, E. bridgei, E. missouriensis, E. dakotensis, E. gregalis, E. longa, E. vagans, E. brevifrons* and *E. matheri* (Walcott), p. 352 pl. lxix figs. 19–21, table given showing measurements of types of some of Resser's species to show that species were based on developmental stages of one species p. 354, FREDERICKSON **5.**

Elvinia roemeri (Shumard) p. 38 pl. x figs. 5, 9, 10, 12, 13, J. L. WILSON **55.**

Encrinuridae see *Plasiaspis* **gen. n.**

Eobronteidae **fam. n.** replacement name for Scutellidae R. & E. RICHTER to avoid confusion with Echinoid family of same name p. 45; considered to include *Eobronteus* Reed, *Scutellum* Pusch, *Paralejurus* Hawle & Corda & *Kolihapeltis* Prantl & Přibyl p. 45, SINCLAIR J. Paleont. **23** 1 1949.

Eobronteus Reed 1928, genus discussed and described p. 45. *E. benornatus* p. 47 pl. xiv figs. 3, 5, *E. curtus* p. 50 pl. xiii figs. 1, 2, *E. reedi* p. 51 pl. xiv figs. 7, 9, 10, *E. sculptus* p. 53 pl. xiii figs. 3–6 **spp. n.** Ordovician (Middle) Canada, *E. slocomi* revised generic assignation for *Goldius s.* Bradley 1930 p. 48, new figures of holotype and other material pl. xii figs. 1–4, 7–11. *E. lunatus* (Billings) p. 52 lectotype and hypostome figured pl. xiv, figs. 1, 2, 4, 6. *E. hibernicus* revised generic assignation for *Brontes h.* Portlock p. 53 pl. xiv fig. 11, *E. grayi* (Reed) p. 54 pl. xii fig. 12, *E. craigensis* (Reed) p. 54 pl. xii fig. 6, *E. lamonti* Reed p. 54 pl. xii fig. 5, *E. insularis* revised generic assignation for *Bronteus i.* Eichwald p. 54 pl. xiv fig. 8, *E. laticauda* (Wahlenburg) p. 55, *E.* sp. ? renaming of *Illaenus* sp. ind. 1. Troedsson 1929, *E.? richteri* renaming of *Bronteus r.* Sun 1931 p. 55, SINCLAIR J. Paleont **23** 1 1949.

Eoharpes Raymond 1905, replacement name for *Harpina* Novák 1885 preoccupied, p. 221, generic diagnosis revised, type species *E. primus* (Barrande 1856) selected Bassler 1915, redescribed and topotype figured p. 223, pl. xi figs. 1–4, lectotype selected p. 223, *E. benignensis* (Barrande 1872) lectotype selected and topotype described and figured p. 224 pl. xii figs. 1–9, WHITTINGTON **53.**.

Eoharpes uniserialis Raymond made type species of *Dolichoharpes* **gen. n.** p. 277 WHITTINGTON Amer. J. Sci. **247** 1949.

Eohomalonotus subgenus Reed 1918 raised in grade to genus, diagnosis given p. 3, considered to comprise *E.* (*Eohomalonotus*) and *E.* (*Calymenella*) Bergeron 1890 as subgenera p. 4, *E.* (*E.*) *bohemicus*

(Barrande) ectotype chosen, species discussed, hypostome described for first time p. 7, pl. i figs. 1, 2; pl. ii fig. 5 text-figs. 1, 4. *E.* (*E.*) *drabo-viensis* revised generic reference for *Homalonotus d.* Novák 1883 p. 8, *E.* (*E.?*) *foveolatus* Prantl & Přibyl 1945 p. 9, *E.* (*Calymenella*) discussed p. 11, Reed's opinion denied that facial sutures unite intermarginally p. 11 (though approved on p. 6) also denied that pygidium is semicircular p. 12, *E.* (*C.*) *medius* revised subgeneric reference for *Homalonotus medius* Barrande p. 12 pl. ii figs. 1, 2 text-figs. 2, 6, *E.* (*C.*) *parvulus* revised subgeneric reference for *Calymene parvulus* Barrande 1846, lectotype chosen hypostome figured, p. 14 pl. i figs. 3–5 text-figs. 3, 5, PRANTL & PŘIBYL **23.**

Eops eo R. & E. Richter relationship with Redlichiidae disputed p. 219 illustrated p. 221 text-figs. 9a, b, R. & E. RICHTER **37.**

Flexicalymene acantha p. 305 pl. xi figs. 29, 30, *F. trigonoceps* p. 306 pl. xi figs. 31, 32, 32a, b, *F. salteri* p. 306 pl. xi figs. 34, 34a, 35, *F. laticeps* p. 307 pl. xi figs. 33, 33a, **spp. n.**, *F. onniensis* Shirley p. 308 pl. xi figs. 36, 37, Ordovician Britain (England), BANCROFT & LAMONT Proc. roy. Soc. **136 B** 883 1949.

Flexicalymene scotica **sp. n.** Ordovician (Upper) Britain (Scotland) p. 315 pl. xviii figs. 6, 7, LAMONT Geol. Mag. **86** 1949.

Glyptagnostus reticulatus (Angelin) described and figured from South Korea, p. 2 pl. i figs. 1–15, figures from Norway, British Columbia, Alabama, Sweden and Britain, reproduced pl. i figs. 20–26, *G. angelini* Resser considered a synonym p. 5, *G. toreuma* Whitehouse figures reproduced pl. i figs. 16–19, species considered a synonym p. 5, KOBAYASHI Jap. J. Geol. Geogr. **21** 1–4 1949.

Goldius slocomi Bradley referred to *Eobronteus* and types refigured p. 48 pl. xii figs. 1–4, 7–11, SINCLAIR **40.**

Goniotelus? recorded from Utah p. 480, ROSS **38.**

Grinnelaspis **nom. n.** for *Actinopeltis* Poulsen 1946 [sic really 1947] *non* Hawle and Corda 1847 p. 324 [but see also Poulsen, J. Paleont. **22** 1 1948 Z.R. 85 11 p. 3 title 47, POULSEN **19.**

Harpes Goldfuss 1839 type species *H. macrocephalus* Goldfuss since this the original species of genus founder, non *Trilobites ungula* Sternberg 1833 as taken by Miller 1889, Bassler 1915 and Vogdes 1925 p. 222, WHITTINGTON **53.**

Harpes cf. *neogracilis* Richter & *H.* **sp. n.** recorded from Upper Devonian of Western Australia p. 18, TEICHERT **45.**

Harpidae see *Dolichoharpes* gen. n. Following Richter (1921) Harpid fringe interpreted as influenced by the coming together of reticulated dorsal surface and reticulated doublure p. 284, WHITTINGTON **54.**

Harpides Beyrich referred to Harpedidae (Harpedinae) **subfam. n.** p. 514, RAW **24.**

Harpides rugosus (Sars and Boeck) discussed p. 511, Post's 1906 figures reproduced pl. lxxxiii figs. 1, 2 as also Barrande's 1872 figures of "*H. grimmeri*" Barrande pl. lxxxiii figs. 3–5 which is considered a probable synonym of *H. rugosus* p. 511, RAW **24.**

Harpidinae **subfam. n.** of Harpedidae [sic] quod vide.

Harpedidae [sic] (Harpidinae) **subfam. n.** for *Harpides* Beyrich and *Loganopeltis* Rasetti of which genus *Loganopeltoides* considered a synonym p. 514, RAW J. Paleont. **23** 5 1949.

Harpina Novák 1885 name accepted as preoccupied and replaced by *Eoharpes* Raymond 1905 p. 221, WHITTINGTON **53.**

Hausmannia meridianus Etheridge & Mitchell referred to *Odontochile* p. 19, *H. loomesi* Mitchell 1919 likewise to *O.* p. 20, GILL **7.**

Hedinia regalis Troedsson reconstruction of original Tienshan material given p. 102 text-fig. b as also a photograph of a small fragment so named from South Korea p. 102 text-fig. a, KOBAYASHI **13.**

Hemibarrandia **gen. n.** [Nileidae] for type *Nileus holoubkovensis* Ružička 1926 of which *Symphysurus bohemicus* Klouček 1926 is considered synonym p. 9 pl. i fig. 3, 4 p. 13 pl. ii fig. 3, Tremadoc Czechoslovakia, PRANTL & PŘIBYL Věst. české Spolec. Nauk 1948 12 1949.

Holometopus Angelin renamed *Raymondaspis* quod vide.

Homalonotidae Chapman considered to comprise *Homalonotus* König 1825, *Brongniartella* Reed 1918, *Burmeisteria* Salter 1865, *Burmeisterella* Reed 1918, *Digonus* Gürich 1909, *Dipleura* Green 1832, *Eohomalonotus* Reed 1918 including as a subgenus *Calymenella* Bergeron 1890, *Parahomalonotus* Reed 1918, *Plaesiacomia* Hawle & Corda 1847, *Trimerus* Green 1832, *Turcopyge* R. & E. Richter 1939 p. 1, PRANTL & PŘIBYL **23.**

Homalonotidae in Czechoslovakia known only from the Ordovician deposits p. 1, All Czech members of family referred to *Eohomaloriotus*, *E.* (*Calymenella*) *Brongniartella* and *Plaesicomia*, show in the lower inner corner of the fixed cheek a 'semicircular elevation not previously mentioned in the diagnosis of the family' which is also present in *Synhomalonotus tristani* (Calymenidae) p. 3, PRANTL & PŘIBYL **23.**

Homalonotus draboviensis Novák 1883 referred to *Eohomalonotus* (*Eohomalonotus*) p. 9, *H. inexpectatus* Barrande to *Brongniartella* p. 16, PRANTL & PŘIBYL **23.**

Homalonotus (*Eohomalonotus*) Reed 1918 raised in grade to genus p. 3, PRANTL & PŘIBYL **23.**

Homalonotus harrisoni McCoy referred to *Trimerus* p. 64, *H. vomer* Chapman also to *Trimerus* p. 65, GILL **8.**

Homalonotus collini **nom. nudum** p.52 Devonian (Lower) France (Mayenne), RENAUD & GIRARD, Bull. Soc. géol. min. Bretagne NS **1938** 1939.

Homalonotus collini **sp. n.** Devonian (Lower) France (Brittany) p. 286 pl. xi fig. 9, *H. lebesconti* **sp. n.** p. 282 pl. xi fig. 4, pl. xii figs. 3, 4, Devonian (Lower) France (Brittany), *H. miloni* **sp. n.** Devonian (Lower) France p. 288 pl. xiv fig. 1, *H. gervillei* de Verneuil p. 279, *H. gahardensis* Rouault p. 280 pl. xi fig. 12, *H. acuminatus* de Tromelin & Lebesconte p. 281 pl. xi fig. 11 *H.* sp. aff. *acuminatus* p. 282, *H.* sp. cf. *lebesconti* p. 283, *H. le hiri* Barrois p. 284, *H.* (*Digonus*) *rhenanus* Koch p. 284, *H.* (*D.*) cf. *rhenanus* p. 285, *H.* (*Dipleura*) *planus* Sandberger p. 287, *H. forbesi* Rouault p. 287, *H. laevicauda* Quenstedt p. 289, *H.* sp. group of *H. armatus* Koch p. 289 pl. xi figs. 1, 2, *H.* sp. p. 291, Devonian (Lower) pl. xi fig. 3, *H.* sp. p. 291 pl. xii fig. 6, Devonian (Lower), *H.* sp. p. 292 France, RENAUD Mém. Soc. géol. min. Bretagne **7** 1942.

Otarion gaultieri Rouault p. 278, *O.* sp., p. 279, RENAUD **35.**

Howellaspis Lochman & Denson 1944 suppressed as synonym of *Bolaspidella* Resser 1937 *H. wellsvillensis* L. & D. and *H. snowyensis* Duncan referred to *Bolaspidella* p. 439, LOCHMAN & DUNCAN J. Paleont. **23** 4 1949.

Hungioides Kobayashi 1936 discussed p. 13 *H. bohemicus* (Perner 1918) p. 15, *H. nováki* Kobayashi p. 15 pl. ii fig. 1, PRANTL & PŘIBYL **22.**

Hungaia considered to be allied to *Dicellocephalina* p. 514, RAW **24.**

Hystricurus cf. *cordai* p. 489 and *H.* spp. p. 481 recorded from Utah, ROSS **38.**

Idahoia ? longa **sp. n.** Cambrian (Upper) U.S.A. (Oklahoma) p. 358 pl. lxxii figs. 10–12, FREDERICKSON J. Paleont. **23** 4 1949.

Iddingsia nevadensis Resser p. 38 pl. ix figs. 6–8, 19, *I. anatina* Resser (to the synonymy of which species are referred *I. alperensis* and *I. simplicitas* Resser) type species of *Plataspella* **gen. n.** p. 42, *I. bicincta* and *I. crassimarginata* referred to *P.* p. 41, J. L. WILSON **55.**

Illaenus bohemicus Barrande 1872 type of *Stygina* (*Protostygina*) **subgen. n.** p. 10, PRANTL & PŘIBYL Bull. intern. Acad. tchèque Sci. **49** 8 for 1948 1949.

Illaenus calvus Barrande 1872 referred to *Symphysurus* ? (*Symphysurus*) p. 5, *I. puer* Barrande 1872 chosen as type of *Symphysurus*

(*Kodymaspis*) **subgen. n.** p. 6 pl. ii figs. 1, 2 and lectotype chosen p. 7 text-figs. 1, 2, p. 13, PRANTL & PŘIBYL **20.**

Illaenus megalophthalmus (Linnarsson) p. 407, *I.* sp. p. 407, pl. ii fig. 1, HENNINGSMOEN **11.**

Irvingella burnetensis Resser p. 39 pl. xi figs. 18, 21, *I. media* Resser p. 39 pl. x fig. 7, pl. xi figs. 16, 17, 19, 20, J. L. WILSON **55.**

Irvingella major Ulrich and Resser to the synonymy of which are referred Resser's *I. silvestris, I. arbucklensis, I. mesleri, I. recurva, I. alia, I. ardmorensis, I. alta and I. deckeri* p. 353 pl. lxix figs. 5–7, FREDERICKSON **5.**

Irvingella suecica Westergård claimed to occur earlier in the Upper Cambrian of Sweden than stated in 1947 p. 606, WESTERGÅRD **52.**

"*Isotelus*" *stacyi* F. Schmidt p. 549 pl. i figs. 5, 6, BOHLIN **2.**

Jeffersonia sp. recorded from Utah p. 481, ROSS **38.**

Kawina sp. n. recorded from U.S.A. (Utah) p. 480, ROSS **38.**

Kindbladia wichitaensis (Resser) p. 40 pl. ix figs. 14–18, *K. comes, K. retusa, K. wichitaensis, K. angustata, K. jucunda* and *K. missouriensis* revised generic assignations for Resser's species of *Berkeia* p. 41, J. L. WILSON **55.**

Kiowaia **gen. n.** [resembles *Avonaspis* Lochman] for type *K. timberensis* **sp. n.** Cambrian (Upper) U.S.A. (Oklahoma) p. 356 pl. lxx figs. 18–22. FREDERICKSON J. Paleont. **23** 4 1949.

Kirkella cf. *vigilans* (Whittington) recorded from Utah p. 480, ROSS **38.**

Kodymaspis **subgen. n.** see *Symphysurus.*

Koenigia Salter 1865 (subgenus of *Homalonotus*) considered to be an objective synonym of *Homalonotus* Koenig 1825 since they each have *H. knighti* (Koenig) as type species following Bigot 1888, R. Richter 1927 p. 2, *H.* (*K.*) *johannis* (Salter 1863) considered probably to belong to a separate genus or subgenus p. 2, PRANTL & PŘIBYL **23.**

Komaspid recorded from Lower Ordovician of Utah p. 480, ROSS **38.**

Kootenia Walcott referred to Corynexochidae (Dorypyginae); *Notasaphus* Gregory considered to be a synonym p. 3, *K. westergårdi* **sp. n.** p. 4 pl. i figs. 1–13 Cambrian (Middle) Sweden (Jemtland), THORSLUND Avh. Sver. Geol. Undersökn. (C) **510** Årsb. **43** 8 1949.

Kootenidae Resser considered to be a synonym of Corynexochidae (Dorypyginae) p. 4, THORSLUND **49.**

Leiostegium manitouensis recorded from Utah p. 481, ROSS **38.**

Liobole **subgen. n.** of *Phillibole* (Proetidae) [quod vide], subgenus shows two evolutionary trends (1) 'occipital solution' by postero-lateral portions of glabella (2) '*Peltura* tendency' by a forward placement of eyes accompanied by a post-ocular divergence of facial sutures p. 72, R. & E. RICHTER Senckenbergiana **30** 1–3 1949.

Liosolenopleura Thoral 1947 discussed type species *L. serventi* [nom. nud. Thoral 1947] **sp. n.** described and figured p. 69 pl. v figs. 1, 2a, b, ? 3 Cambrian (Middle) France (Languedoc), THORAL Ann. l'Univ. Lyon Sci. Nat. 1948.

Liostracidae Angelin discussed p. 65, THORAL **47.**

Liostracus couloumanus Miquel 1905 referred to *Pardailhana* p. 57 *L. granieri* Thoral 1935 to *P.* p. 59, *L.* ? *viallai* **sp. n.** p. 74 pl. v. figs. 4–6, pl. vi figs. 4–7 Cambrian (Middle) France (Languedoc), THORAL Ann. l'Univ. Lyon Sci. Nat. 1948.

Loganopeltis disputed that evidence produced to show that the two branches of the facial suture have coalesced as claimed by Rasetti p.513, RAW **24.**

Loganopeltoides Rasetti 1945 claimed to be a synonym of *Loganopeltis* Rasetti 1943 which is stated to be a close relative of *Harpides* Beyrich p. 513, referred to Harpidinae **subfam. n.** of Harpedidae [sic] p. 514; *L. minutus* referred to synonymy of *Loganopeltis zenkeri* Billings p. 512, RAW **24.**

Lonchodomas minutus **sp. n.** Ordovician (Upper) Sweden (Vestergötland) p. 364 pl. xxi figs. 1a, b, *L.* sp., p. 364 pl. xxi fig. 11, THORSLUND Bull. Geol. Inst. Univ. Upsala **32** 1948.

Lonchodomas pennatus (La Touche) p. 299 pl. x fig. 17, BANCROFT & LAMONT **1.**

Lonchodomas tetragonus (Angelin) p. 407, *L.* sp. p. 407, HENNINGSMOEN **11.**

Lonchodomas sp. from Ordovician (Middle) Norway photographed in alcohol to show axial muscle-scars p. 178, STÖRMER **43.**

Macropyge sp. recorded from Utah p. 481, ROSS **38.**

Marrolithus ultimus **sp. n.** Ordovician Britain (England) p. 297 pl. ix fig. 7, BANCROFT & LAMONT Proc. roy. Soc. **136 B** 883 1949.

Maryvillia aequa Duncan 1944 considered to be synonym of *M. wyomingensis* Resser 1942 p. 439, LOCHMAN & DUNCAN J. Paleont. **23** 4 1949.

Maustonia Raasch 1939 declared to be invalid since definition does not comply with Article 25 paragraph c of International Rules of Zoological Nomenclature p. 361, FREDERICKSON J. Paleont. **23** 4 1949.

Meeria **gen. n.** [resembles *Taenicephalus*] for type *M. livae* **sp. n.** Cambrian (Upper) U.S.A. (Oklahoma) p. 358 pl. lxxii figs. 3–6, FREDERICKSON J. Paleont. **23** 4 1949.

Megalaspis centaurus p. 549, pl. i fig. 1, *M. rudis* p. 556 pl. i, figs. 2, *M. gigas* p. 549 pl. i fig. 4, *M.* sp. p. 556 pl. i fig. 3, BOHLIN **2.**

Niezkowskia stubblefieldi **sp. n.** Ordovician Britain (England) p. 311 pl. x figs. 26, 27, BANCROFT & LAMONT Proc. roy. Soc. **136 B** 883 1949.

Nileidae see *Symphysurus* (*Kodymaspis*) **subgen. n.** and *Hemibarrandia* **gen. n.**

Nileus pater Holub. 1912 referred to *Symphysurus* (*Symphysurus*) p. 4 *N. holoubkovensis* Ružička 1926 chosen as type of *Hemibarrandia* **gen. n.** p. 9 text-figs. 3, 4 p. 13 pl. ii fig. 3, PANTL & PŘIBYL **20.**

Notasaphus Gregory considered to be a synonym of *Kootenia* Walcott p. 4, THORSLUND **49.**

Odontochile formosa **sp. n.** Devonian (Lower) p. 20 pl. ii figs. 1, 2, *O. meridianus* revised generic assignation for *Hausmannia m.* Etheridge & Mitchell 1896 lectotype (wrongly termed holotype) selected p. 19, *O. loomesi* for *Dalmanites* (*Hausmannia*) *l.* Mitchell 1919 p. 20 pl. i figs. 5–6, GILL J. Roy. Soc. N.S.W. **82** 1 for 1948 1949.

Odontochile formosa hypostome illustrated and discussed p. 128 pl. xiv fig. 8, GILL **9.**

"*Odontopleura*" sp. p. 365 pl. xxi fig. 9, THORSLUND **48.**

Odontopleurid hypostome discussed and figured p. 130 pl. xiv fig. 5, GILL **9.**

Olenus asiaticus **sp. n.** Cambrian (Upper) Korea (South) p. 229 text-figs. 1a, 1b, *O. gibbosus* (Wahlenberg) restoration given p. 231 text-fig. 2, KOBAYASHI Proc. Imp. Acad. Tokyo **20** 4 1944.

Onnia cobboldi (Bancroft) p. 299 pl. ix figs. 10, 11, *O. gracilis* (Bancroft) p. 299 pl. ix fig. 9, *O. superba* (Bancroft) p. 299 pl. ix figs. 12, pl.x fig. 16, *O. superba* **var. n.** ? p. 299 pl. ix fig. 13, BANCROFT & LAMONT Proc. roy. Soc. **136 B** 883 1949.

Opsidiscus **gen. n.** replacement name for *Aulacodiscus* Westergård 1946 *non* Douvillé 1921 for type *O. bilobatus* (Westergård) Cambrian (Middle) Sweden p. 606, WESTERGÅRD Geol. Fören. Stockholm Förh. **71** 4 1949.

Orygmaspis firma **sp. p.** p. 359 pl. lxxi figs. 15–18, *O. llanoenis* [error pro *llanoensis*] (Walcott) p. 359 pl. lxxi figs. 19–22 Cambrian (Upper) U.S.A. (Oklahoma), FREDERICKSON J. Paleont. **23** 4 1949.

Parabarrandia **subgen. n.** see *Barrandia.*

Parabolina spinulosa (Wahlenberg) restoration given p. 231 text-figs. 3a, 3b, KOBAYASHI **14.**

Parabolinella argentinensis Kobayashi restoration given p. 231 text-fig. 4, KOBAYASHI **14.**

Parabolinoides **gen. n.** [resembles *Parabolinella*] for type *P. contractus* **sp. n.** p. 360 pl. lxxi figs. 4–10, *P. hebe* **sp. n.** p. 361 pl. lxx figs. 7, 8 pl. lxxi figs. 1–3, Cambrian (Upper) U.S.A. (Oklahoma), FREDERICKSON J. Paleont. **23** 4 1949.

Paracedaria **gen. n.** replacement name for *Pilgrimia* Duncan 1944 *non* Osborn 1925 for type *P. montanensis* (Duncan) p. 439 Cambrian (Upper) U.S.A. (Montana), DUNCAN *in* LOCHMAN & DUNCAN J. Paleont. **23** 4 1949.

Paradoxides barrandei? Barrois p. 76, *P. pradoanus* de Verneuil and Barrande p. 78, THORAL **46.**

Paradoxides mediterraneus Pompeckj pl. iv fig. 1d, THORAL **47.**

Paradoxides torelli Westergård p. 6 pl. i fig. 14, *P.* sp. ind. a p. 6 pl. i figs. 15, 16, *P.* sp. ind. b. p. 7 pl. i fig. 17, THORSLUND **49.**

Pardailhania Thoral 1947 genus discussed p. 52 diagnosis given p. 59, *P. multispinosa* **sp. n.** p. 55 pl. iii figs. 8, 9a, b, *P. hispida* (Thoral) p. 52 pl. iii figs. 3–7 possibly the same species as *Sao hispanica* R. & E. Richter nom. nud. *in* Sampelayo 1935 , *P. couloumana* revised generic assignation for *Liostracus couloumanus* Miquel p. 57 pl. ii fig. 11 [wrongly marked 10 on expl. of pl.] pl. iii fig. 10, pl. iv figs. 1a, 2, 3, *P. granieri* for *L. granieri* p. 59 Cambrian (Middle) France (Languedoc), *P. barthouxi* revised generic assignation for *Ptychoparia b.* Mansuy from Morocco p. 89, THORAL Ann. l'Univ. Lyon Sci. Nat. 1948.

Perliproetus sp. n. recorded from Upper Devonian of Western Australia p. 21, TEICHERT **45.**

Perrector perrectus R. & E. Richter relationship with Redlichiidae disputed p. 219 illustrated p. 221 text-figs. 7a, b, R. & E. RICHTER **37.**

Pilgrimia Duncan 1944 *non* Osborn 1925 replaced by *Paracedaria* **nom. n.** [quod vide], DUNCAN *in* LOCHMAN & DUNCAN J. Paleont. **23** 4 1949.

Plataspella anatina (Resser) figured from Oklahoma p. 355 pl. lxviii figs. 10–13, FREDERICKSON **5.**

Phacopid hypostomes discussed and illustrated p. 129 pl. xiv figs. 3, 4, 6–8, GILL **9.**

Phacopidae (Acastinae) see *Phacopidina* **gen. n.**

Phacopidina **gen. n.** [Phacopidae (Acastinae)] for type *P. harnagensis* **sp. n.** p. 310 pl. x figs. 24, 25 Ordovician Britain (England), BANCROFT & LAMONT Proc. roy. Soc. **136B** 883 1949.

Proetidella **gen. n.** [Proetidae ?] for type *P. fearnsidesi* **sp. n.** Ordovician Britain (England) p. 303 pl. x fig. 23, BANCROFT & LAMONT Proc. roy. Soc. **136B** 883 1949.

Phacopidella (*Ductina*) *ductifrons* (R. & E. Richter) recorded from Saxony p. 245, R. & E. Richter *in* SCHÜLLER **39.**

Phacops (*Trimerocephalus*) *mastophthalmus* (Reinhard Richter) and *P.* (*T.*) *m.* or *P.* (*T.*) *caecus* Gürich recorded from Saxony p. 244, R. & E. Richter *in* SCHÜLLER **39.**

Phacops potieri Bayle p. 293 pl. xi fig. 10, *P. occitanicus?* Barrois p. 294, *P. latifrons?* Bronn p. 294 pl. xi fig. 6, *P.* sp. group of *P. latifrons* p. 294, *P.* sp. p. 295, RENAUD **35.**

Phacops sp. hypostome in situ figured p. 129 pl. xiv, figs. 1, 2, GILL **9.**

Phillibole R. & E. Richter 1937 diagnosis given p. 68 *P.* (*Phillibole*) *nitida* (Holzapfel) lectotype chosen and illustrated, revised description p. 69 pl. ii figs. 17, 18 pl. v fig. 47 ; *P.* (*Liobole*) **subgen. n.** for type *Phillipsia glabra* Holzapfel 1889 p. 71, *P.* (*L.*) *g. glabra* neotype chosen and revised description p. 72 pl. i figs. 1–3 pl. iv fig. 39 pl. v fig. 43, *P.* (*L.*) *g. hiemalis* **subsp. n.** p. 74 pl. i figs. 4–11, pl. iv fig. 38, pl. v fig. 45 ; *P.* (*L.*) *coalescens* **sp. n.** p. 77 pl. i figs. 12–16, pl. iii fig. 37, pl. iv fig. 41, pl. v fig. 44 ; *P.* (*L.*) *trimeroides* revised subgeneric and generic reference for *Phillipsia trimeroides* Holzapfel, lectotype selected and revised description p. 79 pl. iii fig. 29 ; *P.* (*L.*) *glabroides* **sp. n.** p. 82 pl. ii figs. 23–26, pl. iii figs. 30–35, pl. iv fig. 40, pl. v fig. 42, *P.* (*L.*) *subaequalis* revised subgeneric and

generic reference for *Phillipsia s.* Holzapfel p. 84 pl. iii fig. 28, *P.* (*L.*) n. sp. *a.* aff. *subaequalis* p. 86 pl. ii fig. 22 Germany; *P.* (*L.*) *castroi* revised subgeneric and generic reference for *Phillipsia c.* Barrois p. 87; *P.* (*L.*) spp. p. 87 Spain; *P.* (*L.*) sp. *A.* p. 89, *P.* (*L.*) sp. *B.* p. 89; *P.* (*L.*) sp. *C.* p. 89 pl. ii fig. 27, pl. iii fig. 36; *P.* (*L.*) sp. *D.* p. 89; *Phillibole?* (*Cystispina*) *nasifrons* **sp. n.** p. 90 pl. ii figs. 19–21, pl. v fig. 46 Germany Carboniferous (Lower) R. & E. Richter Senckenbergiana **30** 1–3 1949.

Phillipsia nitida Holzapfel referred to *Phillibole* (*Phillibole*) lectotype chosen, illustrated with revised description p. 69 pl. ii figs. 17, 18, pl. v fig. 47; *P. glabra* H. type species of *Phillibole* (*Liobole*) **subgen. n.** p. 71, *P. g. glabra* neotype chosen, illustrated with revised description p. 72 pl. i figs. 1–3, pl. iv fig. 39, pl. v fig. 43; *P. trimeroides* H. referred to *Phillibole* (*Liobole*) lectotype chosen illustrated in revised description p. 79 pl. iii fig. 29, *P. castroi* Barrois referred to *Phillibole* (*Liobole*) p. 87, R. &. E. Richter Senckenbergiana **30** 1–3 1949.

Phillipsinella cf. *parabola* (Barrande) p. 408, Henningsmoen **11.**

Plaesiacomia Hawle & Corda 1847 discussed as a member of Homalonotidae p. 17, *P. rara* H. & C. described p. 19 pl. ii fig. 6, *P. brevicaudata* (Deslongchamps) excluded from synonymy of *P. rara* p. 19, also the specimen figured by Verneuil & Barrande 1856 pl. xxiii fig. 2 p. 20, Prantl & Přibyl **23.**

Plasiaspis **gen. n.** [Encrinuridae] for type *Dindymene bohemica* Barrande 1872 Ordovician (Lower) Czechoslovakia p. 18 pl. iii fig. 5 (hypostome described not figured), Prantl & Přibyl Bull. intern. Acad. tchèque Sci. **49** 8 for 1948 1949.

Plataspella **gen. n.** for type *Iddingsia anatina* Resser (to the synonymy of which are referred *I. alpersensis* Resser and *I. simplicitas* Resser) p. 41 pl. ix figs. 20–22, 25? 26? U.S.A. (Texas), *P. bicincta*, *P. crassimarginata* revised generic assignations for *Iddingsia b.*, & I. *c.* Resser p. 41 Cambrian (Upper), J. L. Wilson J. Paleont. **23** 1 1949.

Platycalymene éire **sp. n.** Ordovician (Middle) Eire p. 313 pl. xviii figs. 1–2, *P. duplicata* Murchison p. 314 pl. xviii fig. 5, *P. d.* forma *femina* (Salter) p. 314 pl. xviii fig. 3, *P. d.* forma *mas* (Salter) p. 314, pl. xviii fig. 4, Lamont Geol. Mag. **86** 1949.

Platypeltis Callaway 1877 *non* Fitzinger 1835 renamed *Platypeltoides* **nom. n.** p. 14, Přibyl *in* Prantl & Přibyl Bull. intern. Acad. tchèque **49** 5 for 1948, 1949.

Platypeltis Callaway 1877 *non* Fitzinger 1835 renamed *Platypeltoides* **nom. n.** p. 8, *P.? macrophthalmus* Thoral 1935 referred to *Symphysurus* (*Kodymaspis*) p. 6 and lectotype chosen p. 8. Přibyl *in* Prantl & Přibyl Věst. české Spolec. Nauk **1948** 12 1949.

Platypeltoides **gen. n.** new name for *Platypeltis* Callaway 1877 *non* Fitzinger 1835 p. 14, Přibyl *in* Prantl & Přibyl Bull. intern. Acad. tchèque **49** 5 for 1948, 1949.

Platypeltoides **gen. n.** [Nileidae] **nom. n.** for *Platypeltis* Callaway 1877 *non P.* Fitzinger 1835 type *P. croftii* Callaway p. 8, Přibyl *in* Prantl & Přibyl Věst. české Spolec. Nauk **1948** 12 1949.

Proetus oehlerti Bayle p. 277, *P. guerangeri* Oehlert & Davoust p. 277, *P. ligeriensis* Barrois p. 278, Renaud **35.**

Prosaukia misa (Hall) compared with *Saukianda* p. 220 partial restoration text-figs. 2a, b, R. &. E. Richter **37.**

Protopliomerops spp. recorded from Utah p. 481, Ross **38.**

Protostygina **subgen. n.** see *Stygina.*

Pseudagnostus josepha (Hall) p. 362 pl. lxxii fig. 17 Cambrian (Upper) U.S.A. (Oklahoma), Frederickson **5.**

Pseudopetigurus **gen. n.** [opisthoparian fam. incert.] for type *Cheirurus hofmanni* Perner 1900 Ordovician (Lower) Czechoslovakia, lectotype selected p. 16 text-figs. 7, 8 pl. iii

figs. 2–4, PRANTL & PŘIBYL Bull. intern. Acad. tchèque Sci. **49** 8 for 1948, 1949.

Pterocephalia sanctisabae Roemer p. 42 pl. x figs. 1–3, J. L. WILSON **55.**

Pterocephalia sanctisabae Roemer to synonymy of which are referred Resser's species *P. ulrichi*, *P. silvestri* and *P. deckeri* p. 355 pl. lxix figs. 1–4, FREDERICKSON **5.**

Pteroparia cf. *aekensis* (Born) recorded from early Upper Devonian of Western Australia p. 18, TEICHERT **45.**

Ptychoparia barthouxi Mansuy from Middle Cambrian of Morocco referred to *Pardailhania* p. 89, THORAL **47.**

Ptychopleurites amploöculata Frederickson supplementary description p. 42 pl. x fig. 4, pl. xi figs. 8, 9, J. L. WILSON **55.**

Raphiophorus edgelli Reed p. 300 pl. x fig. 18, BANCROFT & LAMONT **1.**

Raymondaspis **gen. n.** replacement name for *Holometopus* Angelin homonym of an unstated previously described genus p. 11, PŘIBYL *in* PRANTL & PŘIBYL Bull. intern. Acad. tchèque Sci. **49** 8 for 1948, 1949.

Raymondella Reed 1935 considered to be valid nomenclatorially and not a junior homonym of the brachiopod *Raymondella* **nom. nudum** Bancroft 1933, hence *Reedaspis* Prantl and Přibyl 1948 [sic] is a synonym of *Raymondella* Reed p. 439, SINCLAIR J. Paleont. **23** 4 1949.

Raymondella see *Dionide*.

Redlichia chinensis Walcott p. 220 partial restoration text-fig. 1a, *R. yunnanensis* Resser & Endo p. 220 partial restoration text-fig. 16, R. & E. RICHTER **37.**

Reedaspis **subgen. n.** see *Dionide*.

Reedaspis Prantl and Přibyl 1948 [sic] considered to be a synonym of *Raymondella* Reed 1935 [quod vide] p. 439, SINCLAIR J. Paleont. **23** 4 1949.

Remopleurides burmeisteri **sp. n.** Ordovician (Upper) Britain (England) p. 200 pl. x figs. 19, 20, BANCROFT & LAMONT Proc. roy. Soc. **136 B** 883 1949.

Resserops resserianus R. & E. Richter relationship with Redlichiidae disputed p. 219, illustrated p. 221 text-figs. 8a, b, R. & E. RICHTER **37.**

Reuscholithus reuschi Bancroft p. 297 pl. ix fig. 3, BANCROFT & LAMONT **1.**

Rhaptagnostus acutifrons Troedsson referred to *Aspidagnostus* p. 101, KOBAYASHI **13.**

Salterolithus smeathenensis **sp. n.** Ordovician Britain (England) p. 292 pl. ix figs. 1, 2, 2a *S.* aff. *harnagensis* Bancroft p. 291 pl. x fig. 15, *S.* cf. *intermedius* (Wade) p. 293, *S. caractaci* (Murchison), *S.* (*Ulricholithus*) Bancroft 1933 MS. **subgen. n.** for type *S.* (*U.*) *ulrichi* **sp. n.** Ordovician Britain (Wales) p. 295 pl. ix fig. 14, BANCROFT & LAMONT Proc. roy. Soc. **139 B** 883 1949.

Šárkia Klouček 1916 diagnosis revised and type species *S. bohemica* Klouček figured for first time p. 6 text-figs. 1–3 pl. i figs. 2, 3 pl. iii fig. 6, PRANTL & PŘIBYL **22.**

Saukia iranica King compared with *Saukianda* p. 220 partial restoration text-fig. 4, R. & E. RICHTER **37.**

Saukianda andalusiae R. & E. Richter evidence of age reviewed p. 217 illustrated p. 221 text-figs. 6a, b, anticipated that true age will be known when the Moroccan fauna adequately illustrated p. 223, R. & E. RICHTER **37.**

Saukiella typicals Ulrich & Resser compared with *Saukianda* p. 220 partial restoration text-figs. 3a, b, R. & E. RICHTER **37.**

Scutellidae R. & E. Richter replaced by name Eobronteidae to avoid confusion with the Echinoid family name Scutellidae p. 45, SINCLAIR J. Paleont. **23** 1 1949.

Scutellum gervillei Barrande p. 276, RENAUD **35.**

Scutellum sp. n. recorded from Upper Devonian of Western Australia p. 18, TEICHERT **45.**

Sinosaukia pustulosa Sun compared with *Saukianda* p. 220 partial restoration text-fig. 5, R. & E. RICHTER **37.**

Selenopleura spelling recorded as incorrect form of *Solenopleura* p. 13, THORAL **47.**

Solenopleura genus discussed p. 13, *S. cannati* **sp. n.** [nom. nud. Grönwall and Miquel 1910] p. 22 pl. vi figs. 1–3a, 3b, ? *S. cannati* p. 25 pl. v fig. 7 France (Languedoc) *S. rouayrouxi* (Munier-Chalmas and Bergeron) referred to *Solenopleuropsis* p. 28, *S. variolaris* (Salter) referred with reserve to *Solenopleuropsis* p. 40, *S.* ? *hispida* Thoral to *Solenopleuropsis* p. 52 Cambrian (Middle) THORAL Ann. l'Univ. Lyon Sci. Nat. 1948.

Solenopleuridae discussion of family p. 13, THORAL **47.**

Solenopleuropsidae **fam. n.** for *Solenopleuropsis* Thoral and *Pardailhania* Thoral p. 82, THORAL Ann. l'Univ. Lyon Sci. Nat. 1948.

Solenopleuropsis Thoral 1947 genus discussed p. 27, *S. multigranifera* p. 41 pl. i figs. 2a, b, pl. ii fig. 6, *S. levisilimbata* p. 45 pl. i figs. 3a, b, pl. ii fig. 9, *S. verrucosa* p. 49 pl. iii fig. 1, pl. ii fig. 7, *S. pustulosa* p. 50 pl. iii figs. 2a b **spp. n.**, *S. rouayrouxi* (Munier-Chalmas & Bergeron) p. 27 pl. i figs. 1a,c, pl. ii figs. 1–5, *S. ribeiroi* (de Verneuil & Barrande) p. 43 pl. ii figs. 8 and ?10 [no query on expl. of pl.] Cambrian (Middle) France (Languedoc), *S. variolaris* (Salter) p. 40, THORAL Ann. l'Univ. Lyon Sci. Nat. 1948.

Solenopleuropsis Thoral 1947 genus discussed p. 55, *S. ribeiroi* revised generic reference for *Conocephalites ribeiroi* de Verneuil and Barrande p. 57 pl. v figs. 1–4, *S.* aff. *ribeiroi* pl. v figs. 5–7, *S. castroi* revised g. ref. for *Conocephalites castroi* Barrois p. 68 pl. v figs. 8–11, 12 ? (no query on explanation of plate), THORAL **46.**

Strenuaeva R. & E. Richter, Resser's opinion given in a quoted letter of 25.11.1940 as being related to a new undescribed Upper Cambrian genus and not to *Strenuella* p. 219, anticipated that true age of Andalusian fauna containing *S.* and *Saukianda* will be known when Moroccan fauna containing the latter is adequately illustrated p. 223, R. &. E. RICHTER **37.**

Stygina Salter 1852 discussed p. 9 *S.* (*Protostygina*) **subgen. n.** for type *Illaenus bohemicus* Barrande 1872 Ordovician (Lower) Czechoslovakia p. 10 text-fig. 6 pl. ii fig. 2, pl. iii fig. 1, *S. murchisonae* (Murchison) referred to *S.* (*Protostygina* ?) p. 10, PRANTL & PŘIBYL Bull. intern. Acad. tchèque Sci. **49** 8 for 1948, 1949.

Styginidae Vogdes 1893 discussed p. 10 *Stygina* (*Protostygina*) **subgen. n.** [quod vide] considered to show morphological transition between Styginidae and Illaenidae p. 11, PRANTL & PŘIBYL **22.**

Symphisurina [sic] spp. recorded from Utah p. 481, ROSS **38.**

Symphysurus genus discussed p. 2 *S.* (*S.*) *pater* revised generic reference for *Nileus p.* Holub 1912 and lectotype chosen p. 4 pl. i figs. 1, 2, *S.* ? (*S.*) *calvus* (Barrande 1872) p. 5, *S.* (*Kodymaspis*) **subgen. n.** for type *Illaenus puer* Barrande 1872 p. 6, lectotype chosen, text-figs. 1, 2a, b, pl. ii figs 1, 2, *S. bohemicus* Klouček considered synonym of *Hemibarrandia holoubkovensis* Ružička, *S. bröggeri* Ružička a synonym of *N. holoubkovensis* p. 11, *S.* (*K.*) *macrophthalmus* revised assignation for *Platypeltis? m.* Thoral 1935 p. 6, PRANTL & PŘIBYL Věst. České Spolec. Nauk **1948** 12 1949

Symphysurus pater (Holub) revised naming of pygidium figured by Holub 1912 as *Barrandia prima* Holub p. 13, PRANTL & PŘIBYL **21.**

Synhomalonotus tristani Brongniart reported to show in the lower inner corner of the fixed cheeks, close beside the glabella a semicircular elevation as in Czech Ordovician Homalonotidae p. 3, PRANTL & PŘIBYL **23.**

Taenicephalus wichitaensis Resser p. 362 pl. lxxii figs. 1, 2, FREDERICKSON **5.**

Telephus sp. p. 362 pl. xxi fig. 10, THORSLUND **48.**

Tretaspis seticornis seticornis p. 406, *T. granulata bucklandi* p. 407, HENNINGSMOEN **11.**

Trimerus kinglakensis p. 67 pl. viii figs. 1–3 pl. ix figs. 3, 5, 6 text-fig. 1E, *T. lilydalensis* p. 69 pl. viii figs. 4, 5, pl. ix fig. 7 text-fig 1F, *T. zeehanensis* p. 70 pl. ix figs. 1, 2, 4 text-fig. 1D **spp. n.** *T. harrisoni* revised assignation for *Homalonotus h.* McCoy p. 64 text-fig. 1A, *T. vomer* for *H. vomer* Chapman p. 65 text-figs. 1B, C, Devonian (Lower) Australia, GILL Proc. roy. Soc. Vict. N.S. **61** 1949.

Trinodus cf. *trinodus* p. 407, HENNINGSMOEN **11.**

Trinucleidae facial sutureless condition did not arise by coalescence of pre-ocular and post-ocular branches as claimed by Rasetti in *Loganopeltis* p. 513, RAW **24.**

Trinucleidae fringe formation thought to be formed as in Harpidae [quod vide] though not necessarily regarded as implying close relationship of two families p. 285, WHITTINGTON **54.**

Ulricholithus **subgen. n.** of *Salterolithus* [quod vide].

Wilbernia expansa **sp. n.** p. 362 pl. lxxii figs. 13–16, *W. pero* (Walcott) p. 362 pl. lxxii figs. 7–9 Cambrian (Upper) U.S.A. (Oklahoma), FREDERICKSON J. Paleont. **23** 4 1949.

Xenocheilos **gen. n.** [resembles *Pterocephalia*] for type *X. minutum* **sp. n.** Cambrian (Upper) U.S.A. (Texas) p. 43 pl. ix figs. 11–13, J. L. WILSON J. Paleont. **23** 1 1949.

"*Xenostegium*"? cf. *goniocerum* (Meek) p. 480, *X.* sp. p. 481 recorded from Utah, ROSS **38.**